

Resilient Seat, 304 Stainless Steel Disc

200 psi (2: to 12") and 150 psi (14"-30") bubble tight shut-off, Long stem design allows for 2" insulation, Valve face-to-face dimensions comply with API 609 & MSS-SP-67, Completely assembled and tested, ready for installation

Technical data sheet





F665HD

5-year warranty



Technical data

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Valve Size	2.5" [65]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	-22250°F [-30120°C]	
Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP	
Close-off pressure ∆ps	200 psi	
Flow characteristic	modified equal percentage	
Servicing	maintenance-free	
Rangeability Sv	10:1 (for 3070° range)	
Flow Pattern	2-way	
Leakage rate	0%	
Controllable flow range	90° rotation	
Cv	196	
ANSI Class	Consistent with 125	
Body pressure rating note	232 psi CWP	
Maximum Velocity	12 FPS	
Lug threads	5/8-11 UNC	
Value hadir	Dustile seet iven ACTM ACR	

Materials

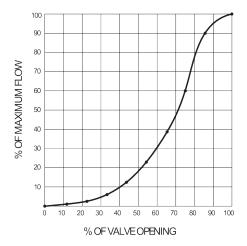
Suitable actuators

Valve body	Ductile cast iron ASTM A536
Body finish	epoxy powder coating (blue RAL 5002)
Stem seal	EPDM (lubricated)
Seat	EPDM
Pipe connection	for use with ANSI class 125/150 flanges
Bearing	RPTFE
Disc	304 stainless steel
Gear operator materials	Gears - hardened steel
Non-Spring	ARB(X) GRB(X)

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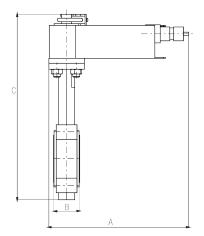


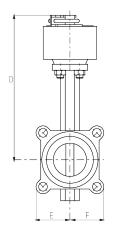
Flow/Mounting details



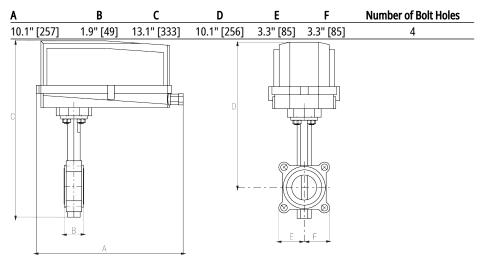
Dimensions







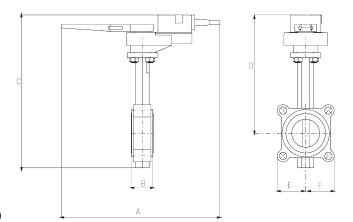
AFR



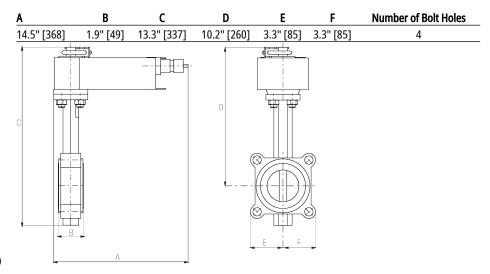
AF/GR..N4

Α	В	C	D	E	F	Number of Bolt Holes
14.5" [368]	1.9" [49]	17.0" [433]	13.9" [354]	3.4" [86]	3.4" [86]	4



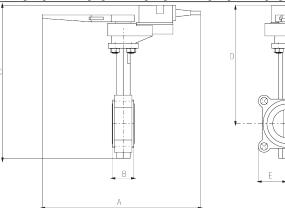


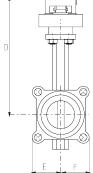
ARB(X)



AFX24-MFT(-S)

A	В	C	D	E	F	Number of Bolt Holes
10.1" [257]	1.9" [49]	16.0" [406]	12.9" [328]	3.3" [85]	3.3" [85]	4
A	В	С	D	E	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	17.6" [448]	14.5" [368]	3.9" [100]	3.9" [100]	4
A	В	С	D	E	F	Number of Bolt Holes
10.1" [257]	1.9" [49]	16.0" [406]	12.9" [328]	3.3" [85]	3.3" [85]	4
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ARB(X)

A	В	С	D	E	F	Number of Bolt Holes
14.5" [368]	1.9" [49]	13.3" [337]	10.2" [260]	3.3" [85]	3.3" [85]	4
A	В	С	D	F	F	Number of Bolt Holes
				-	•	Humber of Bolt Holes



Technical data sheet AFRXUP-S



Technical data		
Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	90°
	Running Time (Motor)	75 s
	Running time fail-safe	<20 s
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	4.1 lb [1.9 kg]

Electrical installation





Technical data sheet AFRXUP-S

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC. 1 Provide overload protection and disconnect as required.

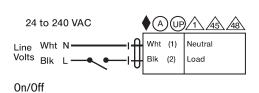
Actuators may be powered in parallel. Power consumption must be observed.

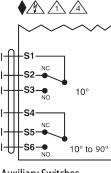
As Parallel wiring required for piggy-back applications.

Meets cULus requirements without the need of an electrical ground connection.

Warning! Live Electrical Components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.





Auxiliary Switches